CLAIMS

- 1. A process for deoxygenating a flow comprising at least one fluoro monomer selected from VF2 and monomers comprising a vinyl group polymerizable by free radicals and at least one fluorine atom, a fluoroalkyl group or a fluoroalkoxy group, directly attached to this vinyl group, said process comprising placing this flow in contact with (i) a sufficient amount of a catalyst whose active sites are elements belonging to groups 8 to 11 of the Periodic Table of the Elements and (ii) for a period which is sufficient to obtain the desired oxygen content.
- 2. A process according to Claim 1, wherein the support for the active sites is a mineral of alumina, silica, a zeolite or an aluminosilicate.
- 3. A process according to Claim 2, wherein the catalyst comprises0.05 5% by weight of the active element.
- 4. A process according to Claim 1, wherein the temperature is 0 200°C.
- 5. A process according to Claim 1, wherein the temperature is 50°C 100°C.

- 6. A process according to Claim 1, wherein the active element is copper or palladium.
- 7. A process according to Claim 1, wherein the flow of deoxygenated VF2 and of optional comonomer comprises less than 5 ppm of oxygen.
- 8. A process according to Claim 1, wherein the oxygen content is less than 1 ppm.
- 9. A flow comprising less than 5 ppm of oxygen, and at least one fluoro monomer selected from VF2 and monomers comprising a vinyl group self polymerizable by free radicals, wherein the monomer comprises at least one fluorine atom, a fluoroalkyl group or a fluoroalkoxy group directly attached to this vinyl group.
- 10. A flow according to Claim 9, comprising less than 1 ppm of oxygen.
- 11. A PVDF, optionally comprising from 0 to 50% of comonomers, having a melt flow index, measured at 230°C under a 5 kg load, of greater than 50 g/10 min according to ASTM D-1238.
- 12. A PVDF according to Claim 11, having a melt flow index, of greater than 100 g/10 min according to ASTM D-1238.

- 13. A PVDF according to Claim 11, having a melt flow index, of greater than 200 g/10 min according to ASTM D-1238.
- 14. A PVDF according to Claim 11, having a melt flow index, of greater than 400 g/10 min according to ASTM D-1238.
- 15. A PVDF homopolymer with a level of defects, measured by fluorine NMR, of greater than 6%.
- 16. A PVDF homopolymer according to Claim 15, with a level of defects, measured by fluorine NMR, of greater than 7%.
- 17. A PVDF homopolymer with an elastic modulus (at 23°C, according to ASTM D-1708) of between 1020 and 650 MPa.
- 18. A PVDF homopolymer according to Claim 17, with an elastic modulus (at 23°C, according to ASTM D-1708) of less than 1000 MPa.
- 19. A PVDF homopolymer according to Claim 17, with an elastic modulus (at 23°C, according to ASTM D-1708) of less than 900 MPa.
- 20. A PVDF homopolymer according to Claim 17, with an elastic modulus (at 23°C, according to ASTM D-1708) of less than 800 MPa.

- 21. A PVDF homopolymer according to Claim 17, with an elastic modulus (at 23°C, according to ASTM D-1708) of less than 700 MPa.
 - 22. A PVDF with an Mw/Mn ratio of 1.5 1.9.